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FILING DATE	FIRST NA	MED INVENTOR	<u> </u>	ATTORNEY DOCKET NO.
09/483,58 01/14/00	PRESTA	•	1	F1726R1
	*	٦		EXAMINER
To lenkech Inc	HM12/092	5	SAUNDE	RS.D
Atn Wendy M Lee			ART UNIT	PAPER NUMBER
/1 DNA:Way South San Firancisco (CA 94080-4990	*	1644 Date Mailed):
		4		09/25/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademark

	1	Applicant(s)	
	Application No. 483, 588	PRESTA	
Office Action Summary	Examinar SAUNDERS	Gloup Air Oim	
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The MAILING DATE of this communication	appears on the cover sheet be	neath the correspondence address	
eriod for Reply	0116	MONTH(S) FROM THE MAILING DATE	
SHORTENED STATUTORY PERIOD FOR REPLY IS F THIS COMMUNICATION.	302110 2/4 4/2	•	
 Extensions of time may be available under the provisions of from the mailing date of this communication. If the period for reply specified above is less than thirty (30) If NO period for reply is specified above, such period shall, I Failure to reply within the set or extended period for reply w 	days, a reply within the statutory minimumly default, expire SIX (6) MONTHS from till, by statute, cause the application to be	on the mailing date of this communication . ecome ABANDONED (35 U.S.C. § 133).	
Status	11.10		
Responsive to communication(s) filed on	110101		
☐ This action is FINAL.	toutom-I mollare nanc	ecution as to the merits is closed in	
 This action is FINAL. Since this application is in condition for allowand accordance with the practice under Ex parte Qu 	e except for formal matters, prosequently, 1935 C.D. 1 1; 453 O.G. 213	3.	
Disposition of Claims		is/are pending in the application.	
Disposition of Claims Claim(s) 1 - 4 9		is/are withdrawn from consideration.	
Of the above claim(s)		is/are allowed.	
Of the above claim(s)		is/are rejected.	
☐ Claim(s)		is/are objected to.	
☐ Claim(s)		are subject to restriction or election	
□ Claim(s) □ Claim(s) □ Claim(s) □ - 49		requirement.	
Application Papers			
Duettenomon's Pate	ent Drawing Review, PTO-948.	• disapproved.	
drowing correction, filed on	is approved	, disapproves.	
☐ The drawing(s) filed on	S/AIG OBJOCIOU IO E J	•	
The specification is objected to by the Examin	er.		
☐ The oath or declaration is objected to by the E	:xammer.		
Priority under 35 U.S.C. § 119 (a)-(d)	. Summar OF LLCC & 11 Q/	a)-(d).	
☐ Acknowledgment is made of a claim for foreig ☐ All ☐ Some* ☐ None of the CERTIFIE	D cobies of the buent, account		
☐ received.☐ received in Application No. (Series Code/S	Serial Number)		
received in this national stage application	from the international baroas (
*Certified copies not received:		•	
Attachment(S)		☐ Interview Summary, PTO-413	
☐ Information Disclosure Statement(s), PTO-14	149, Paper No(s)	☐ Interview Summary, 110 416	
(1) Ched DTO-802		☐ Motice of illigitual Latent Abbusants	

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

Office Action Summary

□ Other_

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

☐ Notice of Reference(s) Cited, PTO-892

Part of Paper No.

Application/Control Number: 09/483,588

Art Unit: 1644

Applicant's response (Paper 9) to the restriction requirement mailed 6/20/01 (Paper 8) is acknowledged. Upon further consideration, the examiner considers further restriction necessary. The examiner apologizes for any delay or inconvenience incurred by this further restriction.

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-15, 23-30 and 36-37, drawn to engineered antibodies with increased ADCC activity or binding affinity for an Fc gamma receptor, classified in class 424, subclass 133.1 and class 530, subclass 387.3.
- / II. Claims 14-22, drawn to engineered antibodies with decreased binding affinity for an Fc gamma receptor, classified in class 424, subclass 133.1 and class 530, subclass 387.3.
 - III. Claims 31-33, drawn to polypeptides with reduced binding affinity for an FcRn, classified in class 530, subclass 387.1.
 - IV. Claims 31 and 34-35, drawn to polypeptides with increased binding affinity for an FcRn, classified in class 530, subclass 387.1.
 - V. Claims 38-42, drawn to nucleic acids, vectors, host cells, and methods of producing a polypeptide with increased ADCC activity or binding affinity for an Fc gamma receptor, classified in class 435, subclass 69.6.
 - VI. Claim 43, drawn to a method of treating a disorder with polypeptides with increased ADCC activity or binding affinity for an Fc gamma receptor, classified in class 424, subclass 133.1.

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VII. Claims 44-49, drawn to methods of selecting a variant Fc having altered FcR binding or altered ADCC wherein the alteration is an increase in these activities, classified in class 435, subclass 7.1+.

VIII. Claims 44-45 and 47-49, drawn to methods of selecting a variant Fc having altered FcR binding or altered ADCC wherein the alteration is a decrease in these activities, classified in class 435, subclass 7.1+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II, III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the products having increased and the products having decreased binding affinities have different properties and functions and different motivations for their production (note, the examiner considers any claim drawn to a polypeptide having increased binding affinity for one species of Fc gamma receptor and a decreased binding affinity for a second species of Fc gamma receptor as falling within Group I and not Group II). Furthermore, Fc gamma receptors and FcRn receptors have distinct functions; the motivation to make changes in binding affinities for various Fc gamma receptors appears to be related to a desire to alter ADCC activity, while the motivation to make changes in the binding affinities for FcRn receptors appears to be related to a desire to make changes in clearance rates. Therefore, the searches for the inventions of Groups I, II, III and IV would require a search for distinct products.

Inventions I and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different

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functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are distinct because the polypeptide of Group I and the nucleic acid/vector/host cell of Group V have different physiochemical properties and have different uses.

It is further noted that the method of Group V would not be used to produce the polypeptides of Groups II, III or IV.

Inventions I and VI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP 806.05(h)). In the instant case the polypeptides of Group I could be used in the isolation of cells bearing a particular Fc receptor, or could be used in an in vitro immunoassay in which Fc receptors are used to capture antibody reagents onto a solid phase.

It is further noted that the products of Groups II, III and IV would not be used in the method of Group VI

Inventions VII (or VIII) and I (or II) are related as process of making (screening for) and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the polypeptide products of Group I (or II) could have been obtained by other methods (e.g. by screening for alterations in other effector function activities of the altered polypeptides).

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The methods of Groups VII and VIII differ in that the nature and properties of the polypeptide product for which one is screening and are thus distinct.

Because these inventions are distinct for the reasons given above and the search required for any one Group is not required for any other Group, restriction for examination purposes as indicated is proper.

In the event that any of Groups I, II, or V-VIII are elected, the following election of species is required:

Claims 1-5, 8-16, 23, 36-46 and 48-49 are generic to a plurality of disclosed patentably distinct species comprising antibodies (or nucleic acids encoding antibodies, methods of use of the antibodies, or methods of selection of the antibodies) wherein the antibodies can have increased or decreased binding affinities for distinct receptors, such as Fc gamma RI, Fc gamma RII, and Fc gamma RIII. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species of antibody (or nucleic acid encoding, or method of use, or method of selecting such) having increased or decreased binding affinity for a particular species Fc gamma receptor, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Page 6 Application/Control Number: 09/483,588 Art Unit: 1644 Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

References supplied with various disclosure statements have been lost. More particularly, no references listed in the disclosure statements received 5/8/00 and 5/15/00 (refs 1-118) can be found. Applicant is requested to supply the nonpatent literature of these statements.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A Saunders whose telephone number is 703-308-3976. The examiner can normally be reached on Mon.-Fri., 8:15 am-4:45 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 703-308-3973. The fax phone numbers for a response to restrictions is 703-308-3704; use attached form.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

DAS September 24, 2001 DAVID SAUNDERS
PRIMARY EXAMINER
ART UNIT 182 /6 44



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